

특 허 협 력 조 약
(PATENT COOPERATION TREATY)

발신 : 국제조사기관

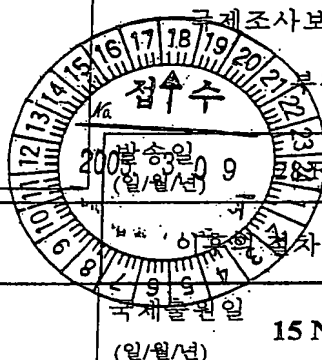
수신 :

LEE, Chulhee

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Republic of Korea

PCT

국제조사보고서 및 국제조사기관의 견해서,
또는 국제조사보고서
부작성 선언서 송부 통지서
(PCT 규칙 44.1)



28 FEBRUARY 2005 (28.02.2005)

출원인 또는 대리인 서류참조기호

PCT04-058

국제출원번호

PCT/KR2004/002956

국제출원일
(일/월/년)

15 NOVEMBER 2004 (15.11.2004)

출원인

SK TELECOM CO., LTD. et al

1. ☒ 국제보고서 및 국제조사기관의 견해서가 작성되어 이를 송부함을 출원인에게 통지합니다.

조약 제19조의 규정에 의한 보정서 및 설명서의 제출:

희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다. (조약규칙 46):

기간 보정서 제출기간은 통상 국제조사보고서 송부일로부터 2월.

제출처 International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
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보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.

2. ☐ 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 선언서 및 국제조사기관의 견해서가 송부됨을 출원인에게 통지합니다.
3. ☐ 조약규칙 40.2의 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에게 통지합니다.
- ☐ 이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한 결정 통지서의 지정관청에 송부신청서와 함께 국제사무국에 송부하였습니다.
- ☐ 이의신청에 대한 결정이 아직 이루어지지 않았습니다; 결정이 이루어지는 대로 출원인에게 통지할 것입니다.

4. 주의사항

우선일부터 18월 만료직후 국제사무국은 국제출원을 공개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3의 규정에 의한 국제출원 취하서 또는 우선권주장 취하서를 국제사무국에 제출하여야 합니다.

출원인은 비공식적으로 국제조사기관의 견해서에 대한 의견서를 국제사무국에 제출할 수 있다. 국제사무국은 국제예비심사보고서가 작성되지 아니했거나 작성되지 아니할 예정인 경우 당해 의견서의 사본을 모든 지정관청에 송부할 것이다. 당해 의견서는 공중에 이용가능하게 될 것이다. 우선일부터 30월 만료 전에는 그러하지 아니하다. 일부 지정관청에 대하여는 출원인이 우선일부터 30월까지 (일부관청에 대하여는 더 늦을 수도 있음) 국내단계의 개시를 연기하고자 하는 경우에는 우선일부터 19월 이내에 국제예비심사를 청구하여야 합니다; 그렇지 않은 경우 출원인은 우선일부터 20월 이내에 당해 지정관청에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 합니다.

다른 지정관청에 대하여는, 우선일부터 19월 이내에 국제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 있음)의 기간이 적용될 것입니다.

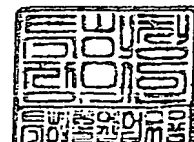
서식 PCT/IB/301의 부속서류를 참조하기 바라며, 각 특허청마다의 적용기간에 대한 구체적인 사항은 PCT출원인 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하시기 바랍니다.

ISA/KR의 명칭 및 우편주소



대한민국 특허청
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920번지 정부대전청사

특허청장



팩스 번호 82-42-472-7140

전화번호 82-42-481-5198

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

LEE, Chulhee

14F, Hyundai Marine & Fire Insurance Bldg., 646 Yeoksam-
dong, Gangnam-gu, Seoul, 135-080, Republic of Korea

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 28 FEBRUARY 2005 (28.02.2005)

Applicant's or agent's file reference
PCT04-058

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/KR2004/002956

International filing date (day/month/year)

15 NOVEMBER 2004 (15.11.2004)

Priority date (day/month/year)

14 NOVEMBER 2003 (14.11.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 H04B 7/26

Applicant

SK TELECOM CO., LTD. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SHIN, Jun Ho

Telephone No. 82-42-481-8129



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002956

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed..
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/KR2004/002956

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 - 51	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1 - 51	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1 - 51	YES
	Claims	NONE	NO

2. Citations and explanations :

1. NOVELTY AND INVENTIVE STEP

Reference is made to the following documents:

D1 : US 6070075 A (SAMSUNG ELECTRONICS CO., LTD.) 30 MAY 2000
D2 : US 2002/0061749 A1 (JASON F. HUNZINGER) 23 MAY 2002
D3 : US 2002/0051432 A1 (LG ELECTRONICS CO., LTD.) 2 MAY 2002
D4 : US 2002/0037726 A1 (STANISLAW CZAJA ET AL.) 28 MARCH 2002

D1 discloses a hard handoff method using a dummy pilot channel. In D1, if a neighboring base station is a dummy pilot cell, a mobile station perform hard handoff by the dummy pilot.

D2 discloses a method of triggering handoff from a first wireless communication system comprising : detecting at least one pilot signal from a second wireless communication system; measuring at least one target parameter from said second wireless system; and detecting when said target parameter exceeds a determined threshold level.

D3 discloses a handoff method between first and second cells using a gateway, wherein one frequency is used by the first cell and a first sector of the gateway, and a second frequency is used by the second cell and a second sector of the gateway.

D4 discloses a soft handoff method between second and third generation CDMA systems, by modifying a messaging structure.

(Continued on Supplement Box)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002956

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of :

(Continuation of Box No. V)

However, the prior arts do not disclose the subject matter of claims 1-51 which comprises the steps of : receiving a WCDMA pilot strength measurement message by a multi-mode terminal; starting a CDMA-2000 modem in the said multi-mode terminal if the said multi-mode mobile station detects that a dummy pilot signal which is transmitted from a CDMA-2000 base station exceeds a threshold level; and transmitting the level value of the dummy pilot signal to a WCDMA system. Even though the prior arts may be combined, it is not obvious to a skilled person in a CDMA communication to derive the subject matter of claims 1-51 from the prior arts.

Therefore, the subject matter of claims 1-51 is considered to meet the requirement for PCT Article 33(2) and 33(3) in respect of novelty and inventive step.

2. INDUSTRIAL APPLICABILITY

The subject matter of claims 1-51 is considered to meet PCT Article 33(4) in respect of industrial applicability.
